Liquid Carbon Dioxide Cleaning Machine

CO₂ What it has to offer you in today's cleaning world.

Carbon Dioxide (CO2)

CO2 is a process that has been developed for use by commercial and retail drycleaners. CO2 is a non-flammable, non toxic, colorless naturally-occurring gas that when subjected to pressure, becomes a liquid solvent. The CO2 used in this process is an industrial by-product from existing operations, primarily anhydrous ammonia (fertilizer) production. There is no net increase in the amount of CO2 emitted; therefore, this process does not contribute to global warming. CO2 is also naturally occurring, and used in other applications such as carbonating soft drinks.

CO2 comes from:

- Humans and Animals exhale CO₂.
- The atmosphere, consisting of roughly 0.03% CO₂.
- Directly from CO₂ wells at high concentrations.
- By-products from ammonia plants, fermentation from rum & ethanol plants and hydrogen plants within refineries.
- Other sources include ethylene oxide, natural gas processing plants and extractions from flue gases.

CO2 is Completely

- ✓ NON-Flammable
- ✓ NON-Carcinogenic
- ✓ NON-Toxic
- ✓ NON-Polluting
- ✓ Odorless
- ✓ Tasteless
- ✓ Biodegradable
- ✓ Organic

Major Applications for CO2 are:

- Beer & Soft Drink
 Carbonation
- · Freezing Foods
- · Fire Extinguishing
- Pharmaceuticals
- · Welding
- Rocket Fuels

- · Crude Oil Recovery
- · PH control in water
- · Grain Fumigant
- Pressurizing Aerosols
- · Electronics
- · Dry Cleaning

CO₂ Cleaning – Process Benefits

- 35 minute cleaning cycle dry-to-dry.
- Cool Operating temperatures.
- > Totally hazardous free.
- No air or ground water contamination.
- Less waste disposal.
- No heat setting of stains.

- No cleaning risks on leather, furs sequins or buttons.
- Typical 30 to 40 % increased garment life.
- Less machine maintenance.
- > Double the equipment life.
- Completely Organic both ends for the consumer's and the Environment.

Garments Cleaned in 2006

- ✓ 263,175 Garments
- √5,237 Loads
- √50 lb Average
- √35 Average min. wash time
- √716 lb Average fill ups weekly of CO2
- ✓11 cents a lb
- ✓ Waste pick up 30 gal in 4 years cost ____?

What Does CO2 get out

- Everything that you have done in Perc and with more Options.
- You are working with 4 to 6oz of soap.
- The soap itself can remove 99 % of all dry side stains.
- You can also remove wet side stains.



What spotting agents are there in the market

- ✓ Kreussler
- ✓ Street's
- ✓ Caled
- √ Wash Point
- **√**Dow



The soap Manufactures are always improving the soap of CO₂

THANK YOU VERY MUCH
FOR LEARNING ABOUT
DRY CLEANING WITH
CO2